

Amendment
Application No. 10/724,615
Attorney Docket No. 032152

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Listing of Claims

Claims 1-20 (cancelled)

Claim 21 (previously presented): A method for fabricating a ceramic substrate comprising the steps of:

providing a base;

forming a first basic layer, comprising a first layer and a second layer, wherein the first layer is formed by the steps comprising:

screen-printing a first dielectric material in a first region of the base; and

screen-printing a second dielectric material in a second region of the base

other than the first region, the first dielectric material having a dielectric constant different from that of the second dielectric material;

wherein the second layer is formed by screen-printing directly on the first layer;

forming a second basic layer directly on the second layer of the first basic layer, the second basic layer is formed by:

screen-printing a third dielectric material in a third region on the second

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layer, and

screen-printing a fourth dielectric material in a fourth region on the second

layer other than the third region;

releasing the first basic layer from the base; and

sintering the first basic layer and the second basic layer,

wherein the steps for forming the first layer further comprise screen-printing a fifth dielectric material in a fifth region placed between the first region and the second region of the base, to form a stress mitigating layer.

Claim 22 (previously presented): The method for fabricating a ceramic substrate according to claim 21, wherein a first dielectric layer formed from the first dielectric material has a dielectric constant different from that of a third dielectric layer formed from the third dielectric material.

Claim 23 (cancelled)

Claim 24 (previously presented): The method for fabricating a ceramic substrate according to claim 21, wherein the fifth dielectric material comprises at least one component of the first dielectric material and at least one component of the second dielectric material.

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Claim 25 (previously presented): The method for fabricating a ceramic substrate according to claim 21, further comprising screen-printing a conductor paste in a sixth region of the base, to form a via.

Claim 26 (previously presented): The method for fabricating a ceramic substrate according to claim 25, wherein the conductor paste is screen-printed before the second dielectric material is screen-printed.

Claim 27 (previously presented): The method for fabricating a ceramic substrate according to claim 25, wherein further comprising screen-printing a conductor paste on the first basic layer to form a conductor layer.

Claim 28 (previously presented): The method for fabricating a ceramic substrate according to claim 27, further comprising, after the step of forming the conductor layer, pressurizing the first basic layer at the surface where the conductor layer is formed to planarize the surface of the first basic layer, where the conductor layer is formed.

Claim 29 (previously presented): The method for fabricating a ceramic substrate according to claim 27, wherein the conductor layer forms a circuit connected to a first dielectric layer formed from the first dielectric material, the circuit having at least two functions of a

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transmission interconnection circuit, antenna, a low-pass filter, a high-pass filter, a band-pass filter and a capacitor.

Claim 30 (previously presented): The method for fabricating a ceramic substrate according to claim 21, wherein the second dielectric material is in powder or paste and screen-printed to surround a first dielectric layer formed from the first dielectric material.

Claim 31 (previously presented): The method for fabricating a ceramic substrate according to claim 21, further forming conductor layers on and below a first dielectric layer formed from the first dielectric material, to form a passive element in the region where the first dielectric layer is formed.

Claim 32 (previously presented): The method for fabricating a ceramic substrate according to claim 21, wherein the steps for forming the first layer further comprises screen-printing a sixth dielectric material in a seventh region placed between the second region and the fifth region of the base, to form another stress mitigating layer.

Claim 33 (new): The method for fabricating a ceramic substrate according to claim 21, wherein

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the first dielectric material is a first mixture of TiO_2 and silicic acid-based glass with a first binder resin added thereto,

the second dielectric material is a second mixture of alumina and borosilicic acid-based glass with a second binder resin added thereto, and

the fifth dielectric material is a third mixture of alumina, TiO_2 and borosilicic acid-based glass with a third binder resin added thereto.

Claim 34 (new): The method for fabricating a ceramic substrate according to claim 33, wherein

each of the first binder resin, the second binder resin and the third binder resin is poly(vinyl butyral).

Claim 35 (new): The method for fabricating a ceramic substrate according to claim 33, wherein

dibutyl phthalate is added to each of the first mixture, the second mixture and the third mixture.